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NOTES ON COLEOPTERA COLLECTED IN NORTHERN GEORGIA.

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During the last two weeks of June, 1909, William T. Davis, Charles Dury, Dr. E. G. Love and the writer collected the species of Coleoptera named in the following list. Our headquarters were Dozier's Hotel, Clayton, Rabun Co., Ga. Clayton stands at an elevation of 2,000 ft. in a valley traversed by a small river and surrounded by mountains. Our collections were made partly in the immediate vicinity of the village, but principally on either Black Rock or Screamer Mt., each about three miles from the village and each about 3,700 feet high. We also visited the deep forests about Tuckalege Creek, six miles east, and Wilson's Gap, ten miles north. The largest number of *Cychrus* came from the place last named. All these localities are in Rabun County, which is one of the northern tier, and its mountains are quite similar to those of the adjoining states, Tennessee and North Carolina, though they do not reach the elevations attained by the mountains of the latter.

Extreme precipitation, the greatest known in eastern America, manifested during our stay by heavy thunder storms almost every afternoon, combined with the warm climate of its latitude, are factors that influence the flora and fauna of the region. In addition, important factors for us were the great forests on the mountain sides, unburned and uncut in some places, with many fallen trees and an accumulation of old leaves that, in favorable localities, covered the ground twelve inches deep. In localities that had been burned, the bare ground is so washed by the torrents of rain that it is swept clean of leaves, stones and sticks and the only shelter that remains for ground beetles is under the bark or within the rotten wood of the fallen trees. In the most exposed situations, the slopes are eroded by these rains to a remarkable extent, and the bare red soil, destitute of vegetation, is most discouraging to the collector.

The summit of Black Rock, where we spent much time, is a long ridge, rather than a peak, covered with deciduous forest, with undergrowth of *Rhododendron, Azalea, Andromeda* and other shrubs growing out of a mass of old leaves dotted with growths of *Galax* vines and brilliantly red *Lychnis.* Hours were pleasantly passed in beating, sweeping and sifting on this summit. At a lower level Chinquapin, the little southern chestnut, was in flower and very productive. From the top of Black Rock, the view to the west and northwest stretches over the valley of the Little Tennessee to countless similar ridges, all forest-clad and gradually increasing in height until the eye rests on the hazy outlines of the Nantahela Mts. of North Carolina. We did not find these ridges favorable ground for *Cychrus,* though by hard work a few were caught. As pointed out by Mr. Davis, they prefer the valleys and ravines in the mountains, where the topographic conditions increase the humidity. Wilson's Gap proved our best hunting ground. There, at an elevation of about 3,000 feet, we found a stream running between two mountains through a ravine with steep sides, opening into a flat which was overflowed in part during heavy rains. The trees were two feet in diameter in many cases and plenty of dead ones lay on the mountain sides. The ground was deeply covered with old leaves and a heavy growth of shrubs edged the stream and hung over its cascades. In the fallen trees, under the loose bark that came off in sheets, burrowing into the rotten wood beneath the bark, were *Cychrus* in plenty, once twelve in one log.

On the map accompanying Dr. Merriam's "Life Zones and Crop Zones" the region we visited appears as the southern extremity of the transition zone. Luxuriant patches of persimmon trees, a small patch of cane brake near the river, passion flowers in a warm sandy field, yucca in another field were some of the exceptional botanical signs that we were in Georgia; otherwise the trees and shrubs presented a familiar appearance to collectors accustomed to the woods of northern New Jersey. Similarly the subjoined list of beetles contains the names of a few southern species, but many more names of species familiar to northern collectors. It may derive its principal interest from the occurrence of a few species previously known from western North Carolina and the inference that may perhaps fairly be drawn that more thorough collecting in the southern Allegheny Mountains will disclose a greater number of species peculiar to the region.

List of Species and Notes.

Species of which I have seen only specimens collected by Mr. Davis are marked Ds. Those based on the collection made by Dr. Love are marked L. Those included on the authority of Mr. Dury were collected and identified by him and are marked Dy. Those not specially marked were either collected by all the party or by me only.

- **Cicindela unipunctata** Fab.
  - **6-guttata** Fab.
  - **patruela** Dej.
  - **transversa** Leng.
  - **tranquebarica** Hbst. form **minor.**
  - **repanda** Dej.
  - **12-guttata** Dej. (L., Ds.).
  - **punctulata** Fab.
- **Cychrus bicarinatus** Lec.
  - **canadensis** Chd.
  - **andrewsi** Harr.
  - **elevatus** Fab. (L.).
- **Nomaretus debilis** Lec.
- **Carabus sylvosus** Say.
  - **limbatus** Say.
  - **serratus** Say (L., Ds.).
- **Notiophilus æneus** Hbst.
  - **9-striatus** Lec.
- **Nebria pallipes** Say (L.).
- **Pasimachus depressus** Fab.
  - **substriatus** Lec.
- **Scarites subterraneus** Fab.
- **Clivina bipustulata** Fab.
  - **planicollis** Lec.
- **Panagæus fasciatus** Say.
- **Ardistomis viridis** Say (Dy.).
- **Bembidium postremum** Say.
  - **lævigatum** Say (Dy.).
  - **dilatatum** Lec. (Dy.).
  - **nigrum** Say (Dy.).
  - **variegatum** Say (Dy.).
- **Anillus fortis** Horn.
- **Tachys nanus** Gyll.
  - **flavicauda** Say.
  - **granarius** Dej. (Dy.).
  - **vivax** Lec.
  - **proximus** Say.
- **Pterostichus mœstus** Say.
  - **honestus** Say.
  - **blanchardi** Horn.
  - **adoxus** Say.
  - **spoliatus** Newn.

- **Pterostichus grandiceps** Chd.
  - **vinctus** Lec.
  - **lachrymosus** Newn. (Dy., Ds.).
  - **coracinus** Newn. (Dy.).
  - **mutus** Say.
- **Evarthrus sigillatus** Say.?
  - **obsoletus** Say (Dy., Ds.).
- **Amara pennsylvanica** Hayw.
  - **exarata** Dej.
- **Loxandrus velox** Dej.
- **Dicælus dilatatus** Say.
  - **purpuratus** Bon. (L.).
  - **elongatus** Bon.
  - **ambiguus** Laf. (Dy., Ds.).
  - **teter** Bon.
  - **furvus** Dej.
  - **politus** Dej.
- **Badister micans** Lec.
- **Calathus opaculus** Lec.
  - **gregarius** Say (Dy.).
- **Platynus decens** Say.
  - **reflexus** Lec.
  - **extensicollis** Say (Dy.).
  - **ferreus** Hald.
- **Olisthopus parmatus** Say.
- **Atranes pubescens** Dej. (Dy.).
- **Casnonia pennsylvanica** Linn.
- **Galerita janus** Fab.
  - **bicolor** Drury.
- **Lebia ornata** Say.
- **Coptodera aërata** Dej.
- **Cymindis elegans** Lec.
  - **americana** Dej.
- **Apenes lucidula** Dej.
- **Chlænius tomentosus** Say (Ds.).
  - **laticollis** Say.
  - **tricolor** Dej. (Dy., Ds.).
- **Anomoglossus emarginatus** Say (Dy.).
- **Oodes 14-striatus** Chd. (Dy.).
- **Agonoderus infuscatus** Dej.
  - **pallipes** Fab.
  - **testaceus** Dej.
- **Harpalus dichrous** Dej.
  - **pennsylvanicus** DeG.
  - **caliginosus** Fab.
  - **nitidulus** Chd.
- **Selenophorus ellipticus** Dej.
- **Stenolophus spretus** Dej.
  - **conjunctus** Say (Dy.).
  - **ochropezus** Say (Dy.).
- **Anisodactylus terminatus** Say.
  - **baltimorensis** Say.
  - **furvus** Lec.? (Ds.).
  - **rusticus** Say.
  - **carbonarius** Say (Ds.).
  - **nigerrimus** Dej.
- **Dineutes vittatus** Germ.?
- **Necrophorus tomentosus** Web.
- **Prinonochæta opaca** Say (L.).
- **Liodes geminata** Horn (Ds.).
- **Agathidium dentigerum** Horn.
  - **oniscoides** Beauv.
- **Conophron** sp.?
  - **longipilosum** Casey.
- **Batrisus monstrosus** var. **ferox** Lec.
  - **denticollis** Casey.
- **Trimiumelba** sp.?
- **Falagria bilobata** Say.
  - **dissecta** Er.
- **Homolota** sp.?
- **Aleochara lata** Grav.
- **Gyrophæna** sp.?
- **Quedius fulgidus** Fab.
- **Creophilus villosus** Grav.
- **Listrotrophus cingulatus** Grav.
- **Staphylinus maculosus** Grav.
  - **comes** Lec.
  - **violaceus** Grav.
  - **viridianus** Horn.
- **Belonuchus formosus** Grav.
- **Philonthus cyanipennis** Fab.
- **Actobius parcus** Horn.
- **Euæsthetus americanus** Er.
  - **lituarium** Lec.
  - **brevipenne** Lec.
- **Lithocaris confluens** Say.
- **Pæderus littorarius** Grav.
- **Sunius prolixus** Er.
- **Stilicopsis paradoxa** Sachse.
- **Palaminus testaceus** Er.
- **Tachinus fimbriatus** Grav.
  - **limbatus** Mels.

Conosoma pubescens Payk.
crassum Grav.
basale Er.
Mycetoporus americanus Er.
Oxyporus stygicus Say.
5-maculatus Lec.
Apocellus sphæricollis Say.
Bledius cordatus Say.
Erchomus lævis Lec.
Anthobium horni Fauv.?
Scaphidium piceum Mels.
Toxidium 4-guttatum Say.
Megilla maculata DeG.
Hippodamia convergens Guár.
Coccinella 9-notata Hbst.
sanguinea Linn.
Harmonia picta Rand.
Mysia pullata Say (Ds.).
Psyllobora 20-maculata Say.
Chilocorus bivulnerus Muls.
Brachyacantha congruens Casey (Ds.).
indubitabilis Cr. (Ds.).
Hyperaspis regalis Casey?
signata Oliv. (Ds.).
Scymnus sp.
Epilachna borealis Fab. (Ds.).
Aphorista vittata Fab.
Mycetina perpulchra Newn. (Ds.).
Stenotarsus hispidus Hbst. (L.).
Endomychus biguttatus Say.
Languria mozardi Lat.
gracilis Newn.
Tritoma ruficeps Lec.
thoracica Say.
Cicones marginalis Mels.
Aulonium tuberculatum Lec.
Philothermus glabriculus Lec.
Clinidium sculptile Newn. (L.).
Silvanus bidentatus Fab.
advena Waltl.
Læmophlæus biguttatus Say.
Brontes dubius Fab.
Cryptophagus valens Casey.
Mycetophagus pluriguttatus Lec.
Litargus didesmus Say.
Litargus nebulosus Lec.
Anthrenus musæorum Linn.
varius Fab. (Dy.).
Cryptorhopalum triste Lec.
Orphilus glabratus Fab.
Hister civilis Lec.
Cercus abdominalis Er.
Carpophilus melanopterus Er.
antiquus Mels.
Colastus unicolor Say.
Conotelus obscurus Er.
Epuræa rufa Say.
luteola Er.
helvola Er.
Stelidota 8-maculata Say.
Prometopia 6-maculata Say (Ds.).
Pallodes pallidus Beauv.
Cychramus adustus Er.
Dasycerus caroliniensis Horn.
Trogosita virescens Fab.
Tenebrioides nana Mels.?
bimaculata Mels.
Thymalus fulgidus Er.
Nosodendron unicolor Say.
Eurypogon niger Mels.
Ptilodactyla serricollis Say.
Ectopria nervosa Mels.
Cyphon obscurus Guár.
Dromæolus striatus Lec. (Ds.).
Adelocera marmorata Fab. (Dy.).
Alaus oculatus Linn.
Hemirhipus fascicularis Fab. (Ds.).
Cardiophorus gagates Er. (L.).
Horistonotus curiatus Say.
Cryptohypnus exiguus Rand.
Anchastus bicarinatus Lec. (Ds.).
Monocrepidius lividus DeG.
bellus Say (L.).
Elater rubricollis Hbst.
obliquus Say.
pedalis Germ. (Ds.).
Megapenthes limbalis Hbst. (Ds.).
Betarmon bigeminatus Rand. (L.).
Glyphonyx recticollis Say (Ds.).
Melanotus decumanus Er.

Melanotus parumpunctatus Mels.
  americanus Hbst.
Limonius auripilis Say.
  agonus Say (Ds.).
  nimbatus Say.
  æger Lec.
  griseus Beauv. (Dy.).
Athous acanthus Say (Ds.).
  scapularis Say (L., Dy.).
  cucullatus Say (Ds.).
    sp.? (Dy.).
  fossularis Lec. (Ds.).
Sericosomus silaceus Say.
Oxygonus obesus Say (L.).
Asaphes memnonius Hbst. (Ds.).
  decoloratus Say (Ds.).
Corymbites pyrrhos Hbst. (L.).
  sulcicollis Say (Dy.).
  hamatus Say (Ds.).
  trivittatus Lec. (Ds.).
  divaricatus Lec. (L.).
Melanactes morio Fab.
  reichei Germ.
  procerus Lec. (Ds.).
Dicerca obscura Fab.
  asperata Lap. & Gory (Ds.).
Anthaxia quercata Fab.
Chrysobothris dentipes Germ.
  floricola Gory.
  harrisi Hentz (Ds.).
Agrilus fuscipennis Gory (L.).
  arcuatus Say.
  otiosus Say.
  bilineatus Web. (Ds.).
Brachys aërosa Mels.
Pachyscelus lævigatus Say.
Celetes basalis Lec.
Eros sculptilis Say.
  crenatus Germ. (L.).
Plateros timidus Lec.
  modestus Say.
Calochromus perfacetus Say.
Polyclasis bifaria Say (L.).
Lucidota atra Fab.
Pyropyga nigricans Say.
Pyractomena lucifera Mels. (L.).
Photinus consanguineus Lec.
  pyralis Linn. (Ds.).
  umbratus Lec.? (Ds.).
Photuris pennsylvanicus DeG.
Phengodes laticollis? (Dy.).
Chauliognathus marginatus Fab.
Podabrus rugulosus Lec. (Ds., L.).
  basilaris Say.
  tricostatus Say (Ds.).
  brunnicollis Lec. (Ds.).
Telephorus carolinus Fab.
  scitulus Say?
Trypherus latipennis Germ.
Malthinus occipitalis Lec. (Ds., L.).
Collops limbellus G. & H.
  4-maculatus Fab. (Ds.).
Anthocomus erichsoni Lec.
Pseudobæus apicalis Say.
Attalus scincetus Say.
  granularis Er.
Melyris cribrata Lec.
Cymatodera bicolor Say.
Clerus jouteli Leng.
  nigripes Say.
  rosmarus Say (L.).
  ichneumoneus Fab. (Ds.).
  lunatus Spin. (Ds.).
Thanoclerus sanguineus Say.
Phyllobænus dislocatus Say (Ds., L.).
Chariessa pilosa Forst. (Ds.).
Cregya oculata Say.
Oligomerus sericans Mels. (L.).
Sitodrepa panicea Linn. (Ds.).
Trichodesma gibbosa Say.
Anobium notatum Say (L.).
Catorama sp.?
Cupes concolor Westw. (L.).
Cis sp.?
Lucanus elaphus Fab. (Ds.).
  dama Thunb.
Dorcus parallelus Say.
Ceruchus piceus Web.
Passalus cornutus Fab.
Canthon chalcites Hald.

Canthon viridis Beauv. (L.).
nigricornis Say.
lævis Drury (Dy., Ds.).
Chœridium histeroides Web.
lecontei Harold (Dy.).
Copris carolina Linn. (L., Ds.).
Phanæus carnifex Linn.
triangularis Say (Ds.).
Onthophagus hecate Panz.
janus Panz.
pennsylvanicus Harold.
Atænius imbricatus Mels.
stercorator Fab.
abditus Hald.
Aphodius granarius Linn.
depressus Kng. (Dy.).
lividus Oliv.
rubeolus Beauv.
Geotrupes splendidus Fab.
egeriei Germ. (Ds.).
Trox monachus Hbst. (Ds.).
sp. (Ds.).
Serica vespertina Gyll.
sericea Ill. (Ds.).
Macrodactylus angustatus Beauv.
Diplotaxis sordida Say.
harperi Blanch.
bidentata Lec.
liberta Germ. (Ds.).
Lachnosterna villifrons Lec.
ciliata Lec.
fraterna Harr.
hirticula Knoch.
Anomala marginata Fab.
innuba Fab.
oblivia Horn.
undulata Mels.
Pelidnota punctata Linn. (L.).
Ligyrus gibbosus DeG.
Aphonus pyriformis Lec.
Dynastes tityus Linn. (Ds., L.).
Phileurus truncatus Beauv. (Dy., L.).
Cotinis nitidus Linn. (Dy.).
Euphoria sepulchralis Fab.
Cremastochilus harrisi Kirby.
variolosus Kirby (Ds.).
Osmoderma scabra Beauv. (Ds.).
eremicola Knoch (Dy.).
Trichius piger Fab.
affinis Gory.
bibens Fab. (L.).
Valgus squamiger Beauv.
canaliculatus Fab. (Dy.).
Prionus pocularis Dalm.
Elaphidion villosum Fab.
mucronatum Fab. (L.).
cinerascens Lec.
aculeatum Lec. (L.).
Phyton pallidum Say (Dy.).
Calloides nobilis Say.
Clytanthus ruricola Oliv. (Dy.).
Neoclytus erythrocephalus Fab.
Xylotrechus colonus Fab.
Cyrtophorus verrucosus Oliv.
Euderces picipes Fab.
Distenia undata Oliv. (Ds.).
Desmocerus palliatus Forst. (Ds.).
Centrodera picta Hald.
Bellamira scalaris Say (Ds.).
Strangalia famelica Newn.
luteicornis Fab. (Ds.).
Typocerus zebratus Fab.
lunatus Fab.
velutinus Oliv.
Acmæops directa Newn.
Leptura convexa Lec.
cordifera Oliv. (L.).
biforis Newn.
aurata Horn.
vittata Germ.
lineola Say.
vagans Oliv. (Ds.).
Michthysoma heterodoxum Lec.
Cyrtinus pygmæus Hald.
Monohammus titillator Fab.
Goes tesselata Hald. (L.).
debilis Lec. (L.).
oculata Lec.
Cacoplia pullata Hald. (Ds.).
Leptostylus commixtus Hald.
macula Say.
Liopus variegatus Hald. (Ds.).

Liopus fascicularis Harr.
  alpha Say.
Lepturges pictus Lec.
  symmetricus Hald.
  querci Fitch.
  facetus Say (Ds.).
Urographis fasciatus DeG.
Ecyrus dasycerus Say.
Hippopsis lemniscata Fab. (L.).
Eupogonius tomentosus Hald.
Saperda candida Fab.
  discoidea Fab.
  lateralis Oliv. (Ds.).
Oberea gracilis Fab. (Ds.).
  mandarina Fab. (L.).
  ruficollis Fab.
Amphionycha flammata Newn. (L.).
Anomœa laticlavia Forst. (Ds.).
Coscinoptera dominicana Fab.
Babia 4-guttata Oliv.
Chlamys plicata Fab.
Bassareus congestus Fab. (L.).
Cryptocephalus quadruplex Newn. (Ds.).
  notatus Fab.
  gibbicollis Hald.
  lateritius Newn.
Pachybrachys othonus Say.
Xanthonia 10-notata Say.
  villosula Mels.
Fidia cana Horn. (Ds.).
Graphops pubescens Fab. (Ds., L.).
  curtipennis Mels. (L.).
Chrysochus auratus Fab. (Ds.).
Tymnes tricolor Fab.
  metasternalis Cr.
Paria aterrima Oliv.
  4-notata Say (L.).
Metachroma pallidum Say.
  puncticolle Lec.
Chrysodina globosa Say.
Nodonota tristis Oliv.
Colaspis favosa Say.
  brunnea Fab. (L.).
  costipennis Dej.
Doryphora 10-lineata Say.
Chrysomela philadelphica Linn.
Lina lapponica Linn. (Ds.).
  scripta Fab. (L.).
Phyllodecta vulgatissima Linn.
Cerotoma trifurcata Forst. (Ds., L.).
Luperus meraca Say (Ds.).
Diabrotica vittata Fab.
  12-punctata Oliv.
Pachyonychus paradoxus Mels. (Ds.).
Œdionychis quercata Fab.
  gibbitarsis Say (L.).
Disonycha discoidea Fab. (Ds.).
Lactica tibialis Oliv. (L.).
Crepidodera rufipes Linn.
  helxines Linn. (L.).
Orthaltica copalina Fab. (Ds., L.).
Phyllotreta picta Say.
Blepharida rhois Forst. (Ds.).
Odontota rubra Web. (Ds.).
Coptocycla aurichalcea Fab. (Ds.).
Spermophagus robiniæ Sch. (Ds., L.).
Polypleurus perforatus Germ.
Nyctobates pennsylvanica DeG.
Scotobates calcarata Fab. (Ds.).
Xylopinus saperdioides Oliv.
  rufipes Say.
Anædus brunneus Ziegl.
Blapstinus mœstus Mels.
Platydema flavipes Fab. (Ds.).
  excavatum Say (L.).
Opatrinus notus Say.
Uloma impressa Mels.
  punctulata Lec. (Ds.).
  imberbis Lec. (Ds.).
Diaperis hydni Fab.
Hypophlœus thoracicus Mels.
Paratenetus punctatus Sal.
Helops americanus Beauv.
  micans Fab. (L.).
  æreus Germ.
  venustus Say (Ds.).
  cisteloides Germ. (Ds.).

Helops sulcipennis Lec. (Ds., L.).
Cistela sericea Say.
    pulla Mels.
    oblongata Casey.
    marginata Ziegl. (Dy.).
Hymenorus pilosus Mels. (Ds.).
Isomira 4-striata Coup. (Ds.).
Capnochroa fuliginosa Mels.
Androchirus femoralis Oliv.
Arthromacra ænea Say.
Penthe obliquata Fab.
    pimelia Fab. (L.).
Enchodes sericea Hald. (L.).
Dircæa liturata Lec.
Eustrophus bifasciatus Say (Ds.).
    bicolor Say (Dy.).
Symphora flavicollis Hald. (Ds.).
Mycterus scaber Hald.
Canifa plagiata Mels. (Ds.).
Microtonus sericans Lec.
Oxacis thoracica Fab.
Anaspis rufa Say (Ds.).
    flavipennis Hald.
Mordella 8-punctata Fab. (L.).
    serval Say (L.).
    marginata Mels.
    lunulata Helm. (Ds.).
    scutellaris Fab.
Mordellistena trifasciata Say.
    semiusta Lec. (Ds.).
    pubescens Fab.
    liturata Mels.
    fuscata Mels. (Ds.).
    discolor Mels. (L.).
Corphyra collaris Say.
Macratria murina Fab.
Notoxus bicolor Say (Ds.).
    monodon Fab. (L.).
Anthicus sturmii Laf.
Pyrochroa flabellata Fab.
Dendroides canadensis Lat. (Ds.).
Macrobasis unicolor Kby. (L.).
Epicauta cinerea Forst. (Ds.).
Eugnamptus angustatus Hbst.
Pterocolus ovatus Fab.
Attelabus nigripes Lec.
    bipustulatus Fab.
Tanymecus confertus Gyll. (L.).
Pandeletejus hilaris Hbst.
Aphrastus tæniatus Gyll.
Ithycerus noveboracensis Forst.
Apion sp.
Pissodes strobi Peck.
Hylobius pales Hbst.
    confusus Kby. (Ds.).
Lixus concavus Say (L., Ds.).
    terminalis Lec. (L., Ds.).
    musculus Say (L., Ds.).
    macer Lec. (L., Ds.).
Otidocephalus myrmex Hbst.
    chevrolatii Horn.
Magdalis perforata Horn.
Anthonomus mixtus Lec.
Pseudanthonomus longulus Dietz.
Piazorhinus scutellaris Say.
    pictus Lec.
Gymnetron teter Fab.
Læmosaccus plagiatus Fab. (Ds.).
Conotrachelus juglandis Lec.
    naso Lec.
    anaglypticus Say (Ds.).
    seniculus Lec.
Rhyssematus lineaticollis Say (L.).
Cryptorhynchus minutissimis Lec.
    ferratus Say.
Piazurus oculatus Say.
Copturus quercus Say.
    binotatus Lec.
Acoptus suturalis Lec. (L.).
Baris striata Say (Ds.).
Centrinus picumnus Hbst.
Plocamus hispidulus Lec. (Dy.).
Balaninus rectus Say.
    nasicus Say.
Eupsalis minuta Drury.
Rhodobænus 13-punctatus Ill.
Dryophthorus corticalis Say.
Cossonus impressifrons Boh. (L.).
Platypus flavicornis Fab.
Pityophthorus sp.?

Xyleborus sp.?
Chramesus icoriæ Lec. (L.).
Tropideres bimaculatus Oliv. (Ds., Dy.).
Eusphyrus walshii Lec. (L.).
Anthribius cornutus Say.
Cratoparis lunatus Fab. (L.).
Choragus sayi Lec.? (Dy.).

Note 1.—*Cicindela unipunctata* was the most abundant and widely distributed tiger beetle. It was found on every mountain; on Brasstown Bald Mr. Dury found it by hundreds. Mr. Davis observed that this species was able to fly, though not for great distances.

Note 2.—*Cicindela tranquebarica* varies greatly according to its habitat. In Louisiana and other southern states, as far as I have observed, it is smaller than the northern forms and never metallic or brilliantly colored. The few specimens found in Georgia were of this small dark form, which has been called *minor* by Mr. Edw. D. Harris.

Note 3.—*Cychrus bicarinatus* was abundant under the bark of fallen trees and in the rotten wood, occasionally also under stones, logs, etc. Twelve were found in one tree. In a few of the fifty or more examined, three complete carinæ are included in the elytral sculpture; in most there are two complete carinæ as in the type (which came from northern Georgia); in a few specimens, one of the carinæ is broken into oblong tubercles. In all the sides of the elytra are parallel and there is no approach to the more rounded form of *lecontei,* of which this species has been regarded as a variety. *C. bicarinatus,* like others to be mentioned below, occurs in northern Georgia, western North Carolina and eastern Tennessee, or the southern extension of the Allegheny Mountains.

Note 4.—*Cychrus andrewsi* occurs in the same region. The specimens we found are identical with those found by Mr. Beutenmuller in the Black Mountains of North Carolina, and differ in many respects from the *Cychrus* found in western Pennsylvania, West Virginia, Ohio and Indiana, which have long been called *andrewsi,* but are identified as *Germari* Chaud. in Roeschke's recent monograph.

Note 5.—*Nomaretus debilis* was found at the top of Black Rock Mountain by sifting the deep masses of leaves. It is confined to the region mentioned in note 3.

Note 6.—*Anillus fortis,* a very tiny beetle, was also found by sifting on Black Rock Mountain. It occurs in Ohio and Indiana, as well as in these mountains, as I am told by Mr. Dury.

NOTE 7.—*Pterostichus grandiceps* was the most abundant representative of its genus. Like several already mentioned, it is peculiar to the Allegheny Mountains.

NOTE 8.—*Loxandrus velox* was not found in the mountains, but among grass roots near the banks of War Woman Creek. Upon scratching about the short grass, the beetles were dislodged and ran off with a speed that justified their specific name.

NOTE 9.—*Dineutes vittatus?* differs from the specimens previously known by absence of vittæ and its uniform cupreous color. This was the only water beetle found, although considerable search was made. There are no ponds near Clayton and all the streams flow swiftly.

NOTE 10.—*Liodes geminata* was found by Mr. Davis in a decaying myxomecete. All the specimens comply entirely with the description.

NOTE 11.—*Brachyacantha congruens.* One pair found by Mr. Davis agree perfectly with Major Casey's description of specimens from Asheville, N. C., and indicate that this modification of the *ursina* group may be peculiar to the southern Allegheny mountains.

NOTE 12.—*Carpophilus melanopterus* has been rare in New York collections. We found it in a field overrun with *yucca* by beating the blossoms. Many other beetles occurred with it. All the specimens taken have dark elytra, contrasting strongly with the general pale color.

NOTE 13.—*Dasycerus caroliniensis,* described by Horn from specimens found by Morrison near Morganton, N. C., was found by sifting old leaves at the top of Black Rock Mountain.

NOTE 14.—*Corymbites trivittatus* and *divaricatus* are, like the preceding, peculiar to the region. The female of *trivittatus* is very much larger than the male.

NOTE 15.—*Agrilus fuscipennis.* One specimen of this beautiful insect fell into Dr. Love's umbrella. It is rare and its distribution may not be entirely known, but I believe it is peculiar to the region. Mr. Dury states that it occurs in Tennessee and Kentucky. Rare.

NOTE 16.—*Clerus jouteli,* described in our September, 1909, number, was taken by beating at the top of Screamer Mountain—3,700 feet elevation.

NOTE 17.—*Leptura aurata* is another instance of a species peculiar to the Allegheny Mountains. We found it on *Rhododendron* flowers. Mr. Dury has it from Virginia, North Carolina and Maryland.

NOTE 18.—*Michthysoma heterodoxum* was found on Black Rock Mountain; first seen at about 3,000 feet elevation and abundant at the top—3,700 feet. As described by Mr. Frederick Blanchard, it is usually found walking up the trunks of oaks, chestnuts and other trees; and from its size, color and form, greatly resembles the large black ant, *Camponotus*. This species again is peculiar to the region previously mentioned.

NOTE 19.—*Cistela marginata,* one specimen taken by Mr. Dury near the top of Screamer Mountain. As remarked by Major Casey (Col. Not., III, p. 166), this species is widely isolated from our other species of *Cistela* and may have to be generically separated. Mr. Dury in a letter adds: "The type is stated to be 12.5 mm. long, this specimen is 14 mm. The elytra are not nearly one half wider than prothorax, as stated in dimensions given for type. The last joint of maxillary palpi does not agree with the form given by Le Conte to separate *Cistela* from the other genera of the family. It must be rare, as I never met with it in Kentucky or Tennessee, nor have I received it in large collections made on Roan Mountain, N. C. Mr. Schwarz says it is found at Washington D. C. It is remarkably active when beaten into umbrella."

MISCELLANEOUS NOTES ON COLLECTING IN GEORGIA.

BY WM. T. DAVIS,

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On another page of this Journal Mr. Leng has given an account of our visit to Clayton, Ga., in June, 1909, with particular reference to the Coleoptera collected. Mr. Charles Dury in Entomological News for November, 1909, has also written of the Clayton expedition.

While we were searching for *Cychrus* or capturing tiger-beetles on the steep trail that led up the side of Black Rock Mountain, we